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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/058,837	01/30/2002	Takashi Okada	61352-016	2419
20277	7590	10/02/2003	EXAMINER	
MCDERMOTT WILL & EMERY 600 13TH STREET, N.W. WASHINGTON, DC 20005-3096			DI GRAZIO, JEANNE A	
			ART UNIT	PAPER NUMBER
			2871	

DATE MAILED: 10/02/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

10/058,837

Applicant(s)

OKADA ET AL.

Examiner

Jeanne A. Di Grazio

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 02 July 2003.
- 2a) ☐ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☐ Claim(s) \_\_\_\_\_ is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☒ Claim(s) 1-22 are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☒ All b) ☐ Some \* c) ☐ None of:  
1. ☒ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

## **DETAILED ACTION**

### ***Response to Election***

Noting the Response to Restriction Requirement of July 2, 2003, Applicant has elected with traverse Group I (claims 1-4, 7-9, and 16-21 readable thereon) for prosecution on the merits.

### ***Election/Restrictions***

The invention contains claims directed to the following patentably distinct species of the claimed invention:

Species A, Claim 3, First Embodiment, Figure 3, drawn to an LCD element having a bottom gate pixel transistor and peripheries of patterns (the storage capacitor forming independent electrode and the storage capacitor forming pixel electrode) which form the storage capacitor are formed of an irregular shape thereby increasing the length of the peripheries.

Species B, Claim 4, Second Embodiment, drawn to an LCD element having a top gate pixel transistor and D defined by Applicant's Equation 7 and B defined by Applicant's Equation 8 indicating how much the fluctuation of the feed-through voltage can be restricted.

Species C, Claims 7 and 9, Third Embodiment, Figures 13 and 8, drawn to a reflective LCD element where the pixel electrode is composed of a reflective film thus serving as a reflector and the periphery of the pattern of the storage capacitor has an irregular shape with prolonged Lst not indicating restriction of feed-through voltage.

Species D, Fourth Embodiment, Figures 14 (a) and (b), drawn to an active matrix LCD element of a large size and the storage capacitor forming independent electrode is provided with

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a capacitance inclination correcting section and the storage capacitor forming pixel electrode is formed so as to be somewhat larger than the total of the storage capacitor forming independent electrode and the capacitance inclination correcting section not indicating restriction of feed-through voltage.

Species E, Claim 17, Fifth Embodiment, Figures 15 to 20, drawn an LCD element having various planar configurations for the pattern forming the storage capacitor of long peripheral lengths, Lst not necessarily when the pixel transistor is in a continuity state.

Species F, Sixth Embodiment, Figures 21 (a) and (b), drawn to the number of patterns having edges that define the gate to pixel electrode capacitor of the pixel transistor and the number of patterns having edges which define the storage capacitor are limited to a minimum number not indicating restriction of feed-through voltage.

Species G, Claim 19, Seventh Embodiment, Figures 25 and 26, drawn to an active matrix LCD element in which variations in the feed-through voltage are cancelled by a source signal or gate signal not approximate feed-through voltages.

Species H, Claim 21, Seventh Embodiment, Figures 25 and 26, drawn to an LCD display having approximate feed-through voltages not further approximated.

Species I, Claim 22, Seventh Embodiment, Figures 25 and 26, drawn to an LCD display having further approximated feed-through voltages not necessarily of initial approximations.

Species J (H+I), an LCD display having both approximated and further approximated feed-through voltages.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1,2,8,16,18,and 20 may appear to be generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeanne A. Di Grazio whose telephone number is (703)305-7009. The examiner can normally be reached on M-F.

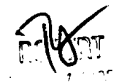
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim, SPE, can be reached on (703) 305-3492. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0956.

Jeanne Andrea Di Grazio

Robert Kim, SPE

JDG

  
ROBERT H. KIM  
SUPERVISOR, EXAMINER  
TECHNOLOGY CENTER 2000